

**Effects of Dexamethasone and temperature on mRNA
expression in an immortalised clone of human bone marrow
stromal cells**

mRNA	Present at 33°C	Effects of Dex	Present at 39°C	Effects of Dex	Primary OB-like cells
IL-1 α	YES	-	NO		NO
IL-1 β	YES	-	NO		NO
IL-3	NO		NO		NO
IL-4	NO		NO		NO
IL-6	YES	NE	YES	+	YES
IL-8	YES	NE	NO	+	YES
GM-CSF	YES	-	NO		NO
TNF α	YES	+	NO		NO
Collagen I	YES	NE	YES	-	Not Done

+ = Increase in expression
 - = Decrease in expression
 NE = No effect

5 x 10⁻⁷M Dexamethasone for 7 days

TABLE 1

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Effects of temperature and Dexamethasone ($5 \times 10^{-7}M$) on alkaline phosphatase activity of HBMSC clone 7 cells

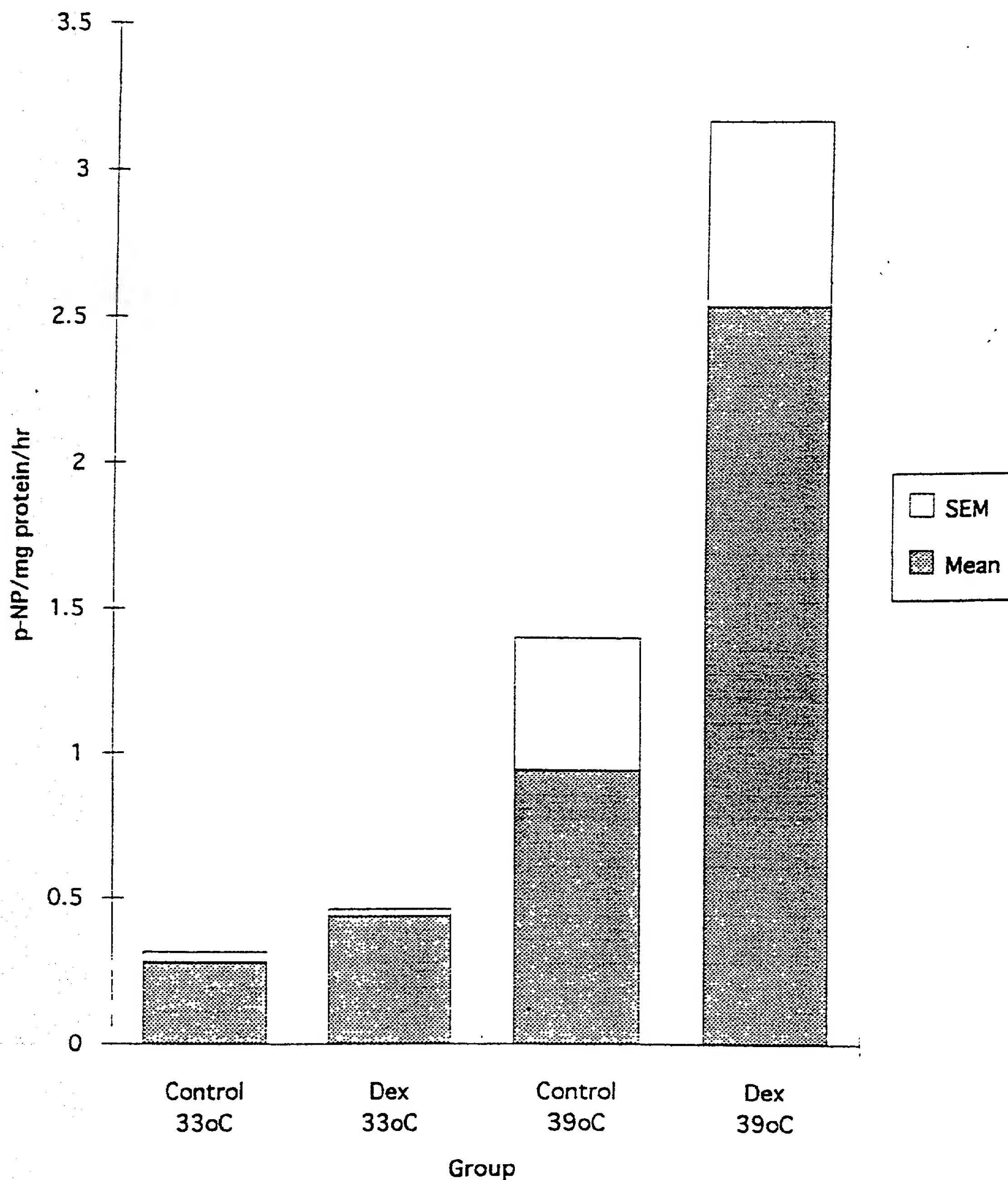


FIGURE 1



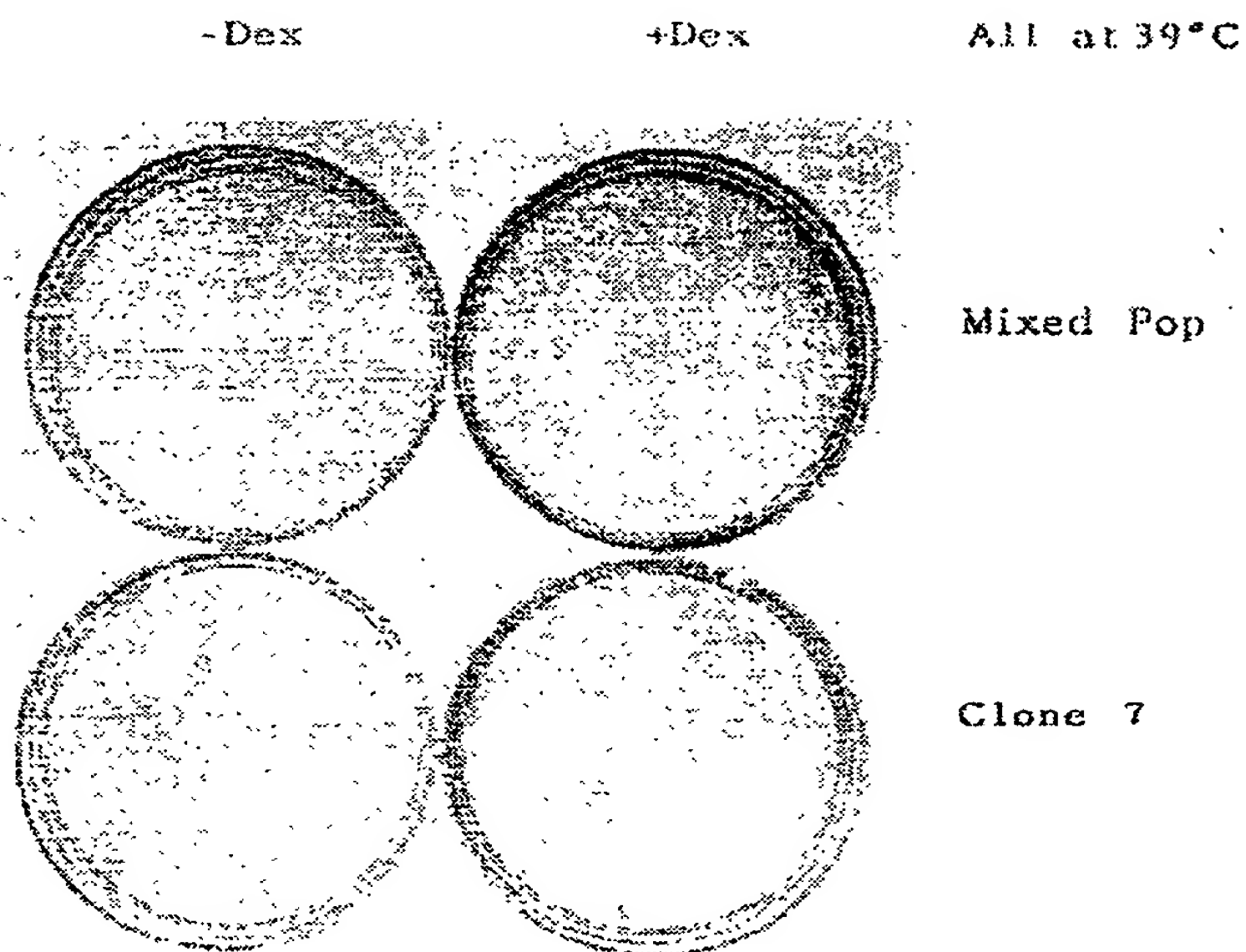
Von Kossa staining control 33°C micropic view

FIGURE 2



Von Kossa staining microscopic view dexamethasone 39°C 5x10-7m

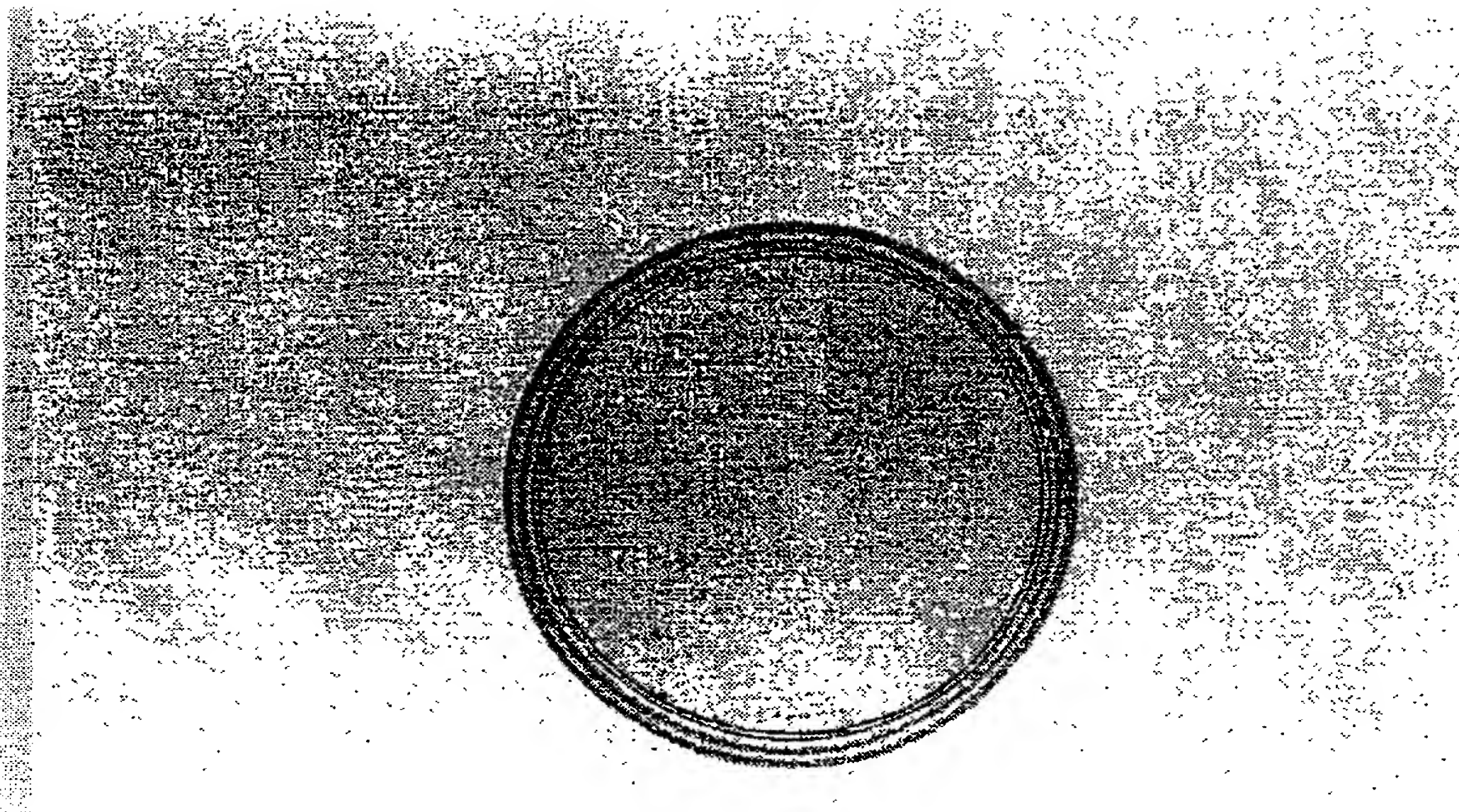
FIGURE 3



Macroscopic view of Von Kossa staining

FIGURE 4

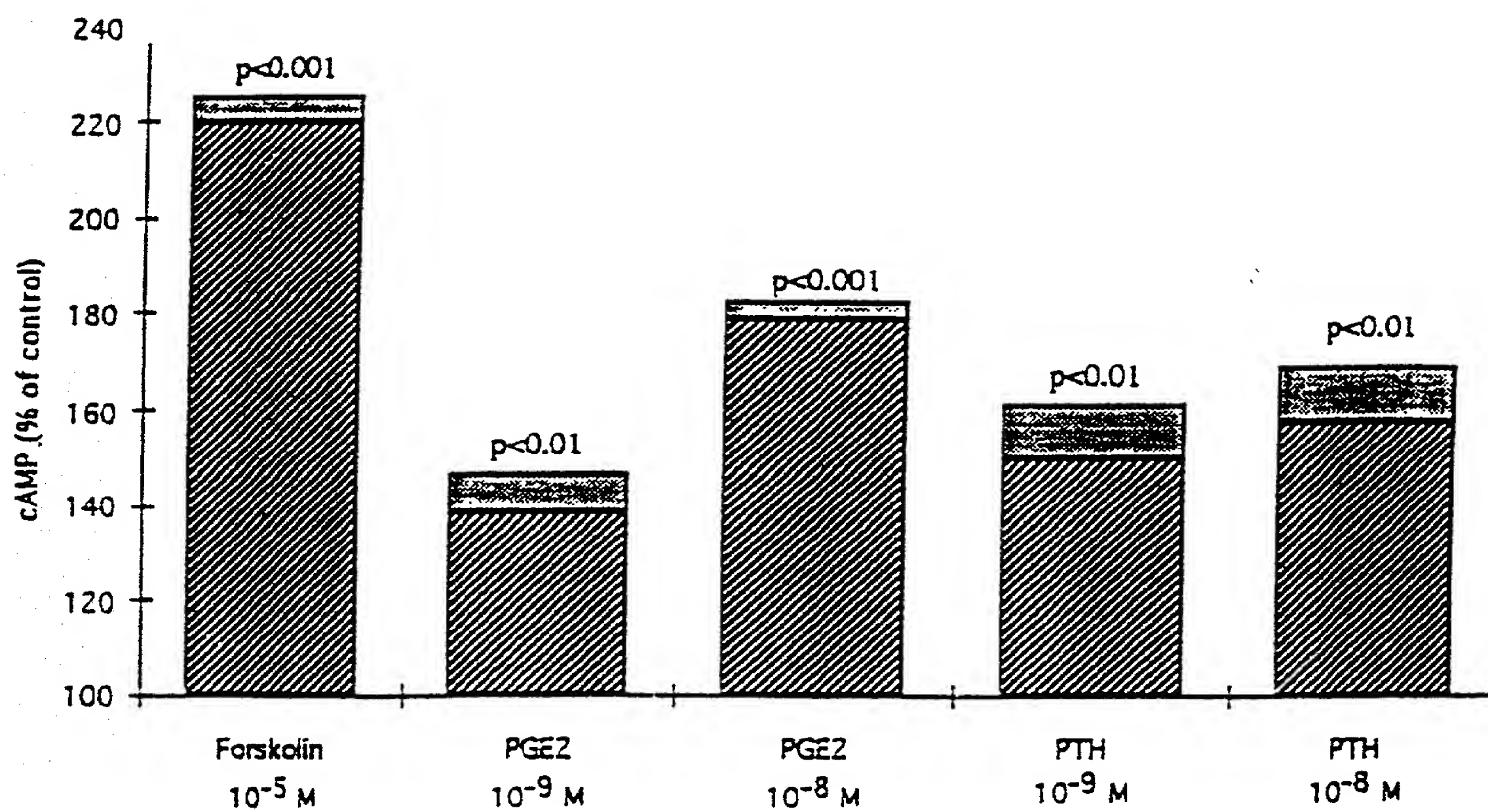
Clone 7 39°C +Dex $5 \times 10^{-7} \text{m}$



Macroscopic view of Von Kossa staining for clone 7 and
Dexamethasone $5 \times 10^{-7} \text{m}$ at 39°C

FIGURE 5

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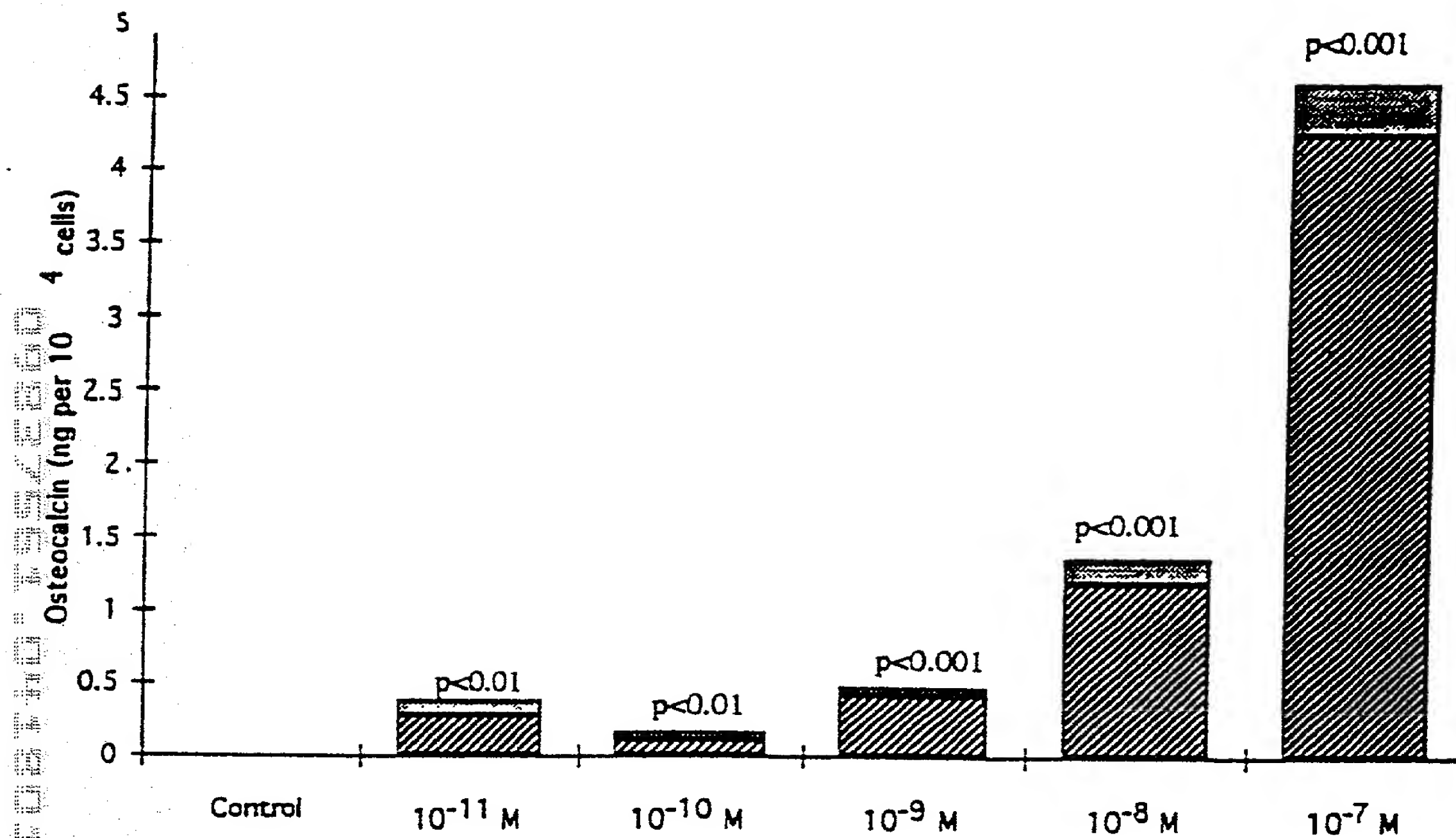


Error bars = SEM, $n=4$

All groups compared to control for statistical analysis (student's t-test).

FIGURE 6

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Error bars = SEM, n=4

All groups compared to control for statistical analysis (student's t-test).

FIGURE 7

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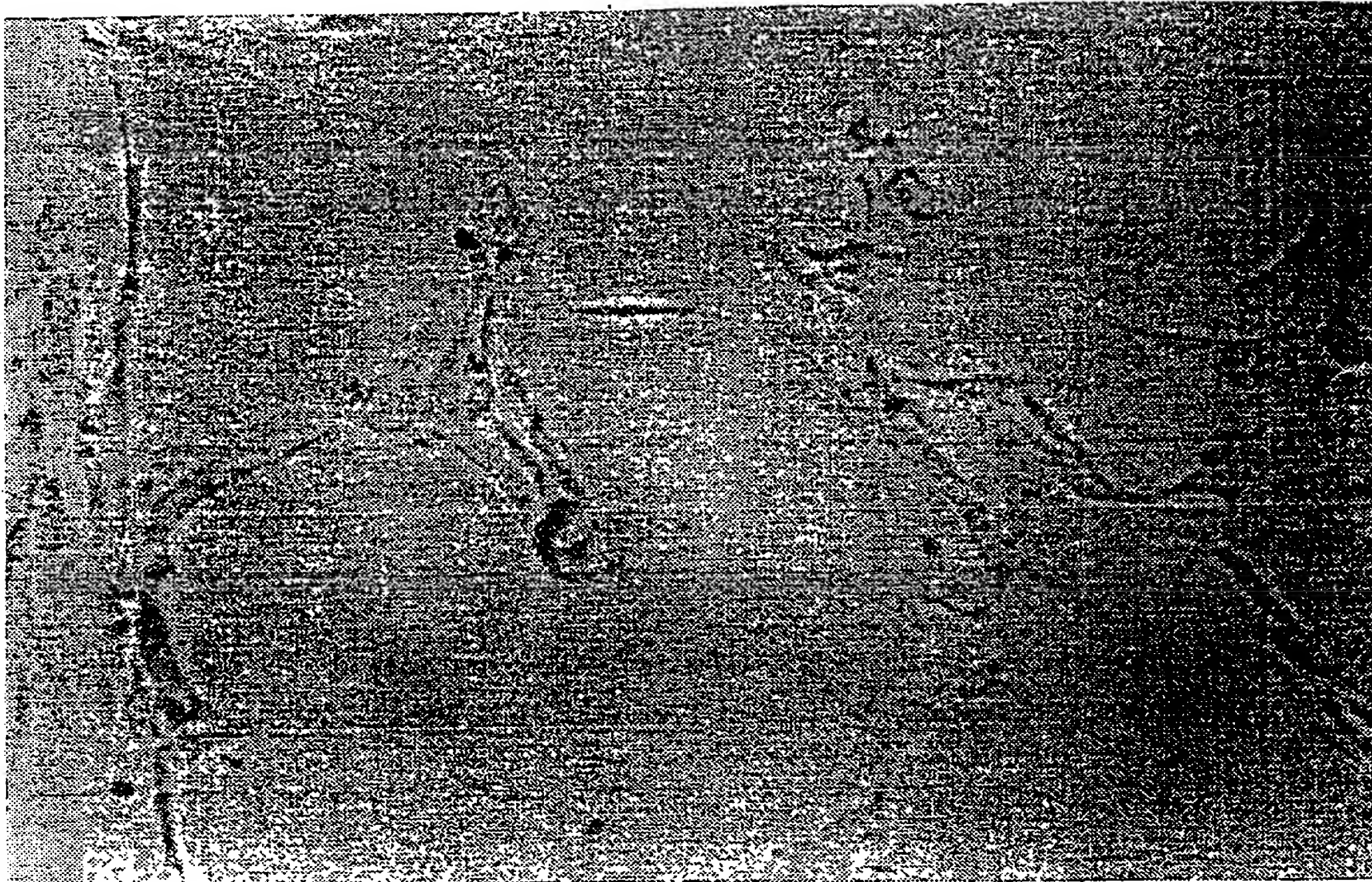


FIGURE 8

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FIGURE 9

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FIGURE 10

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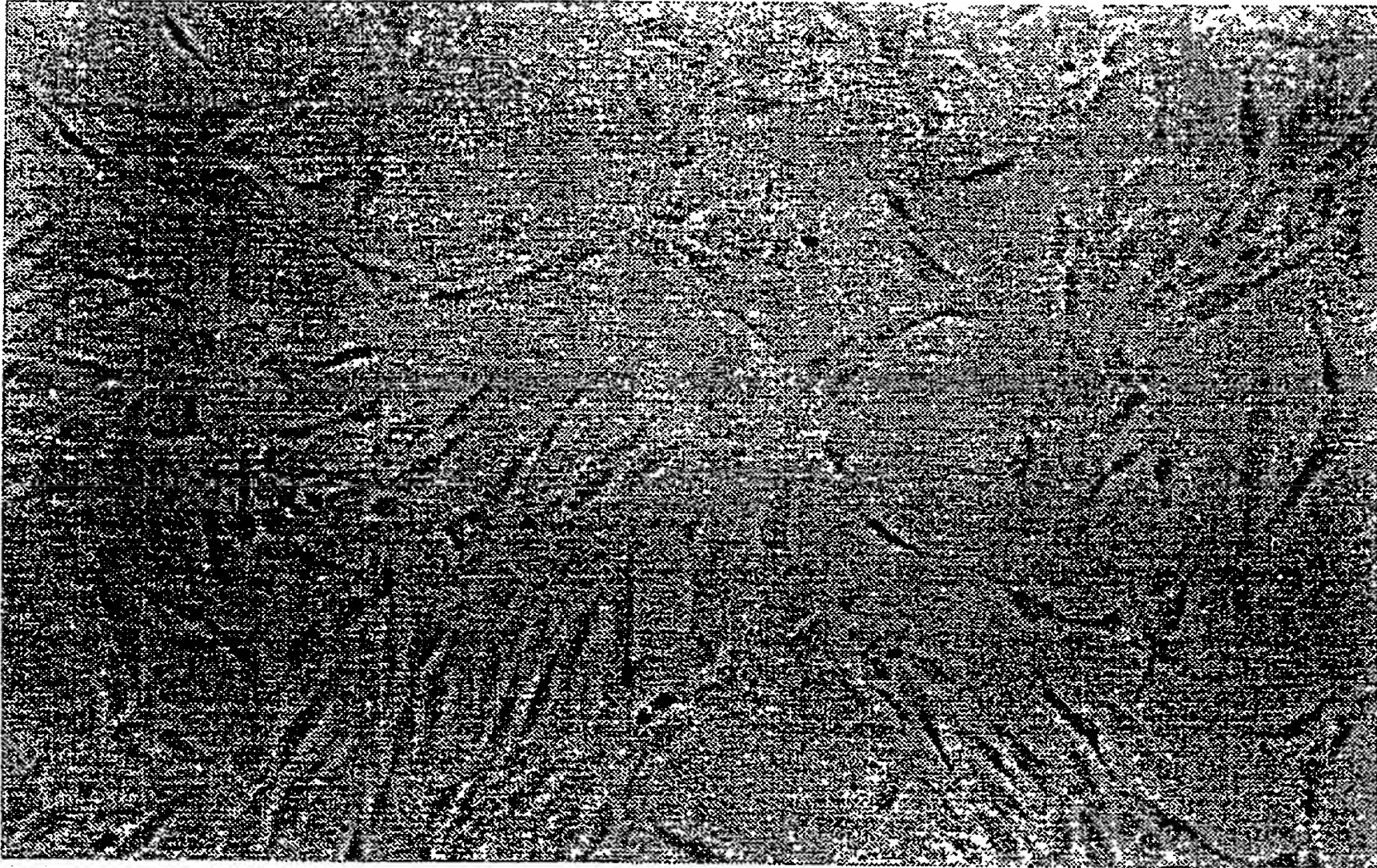
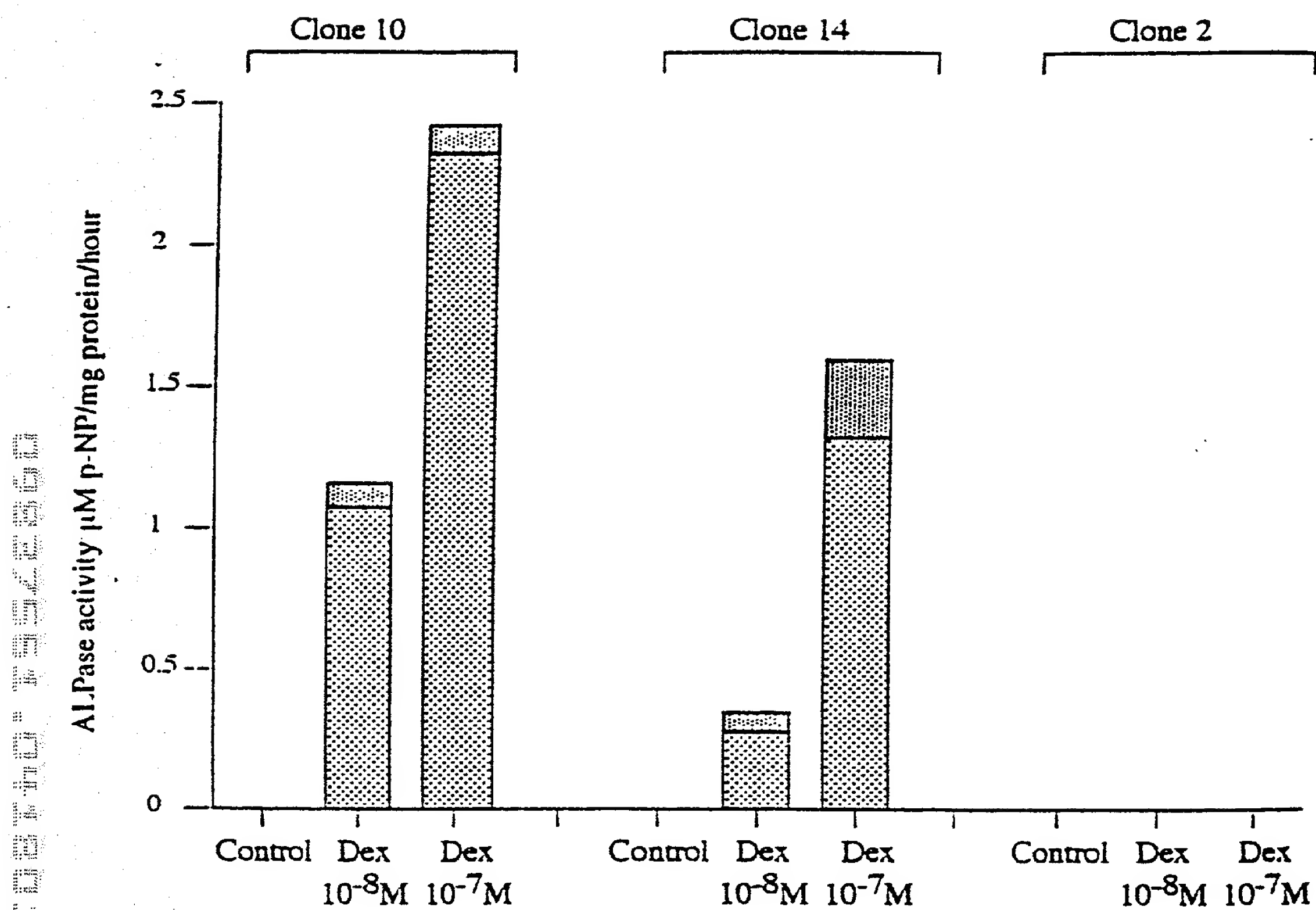
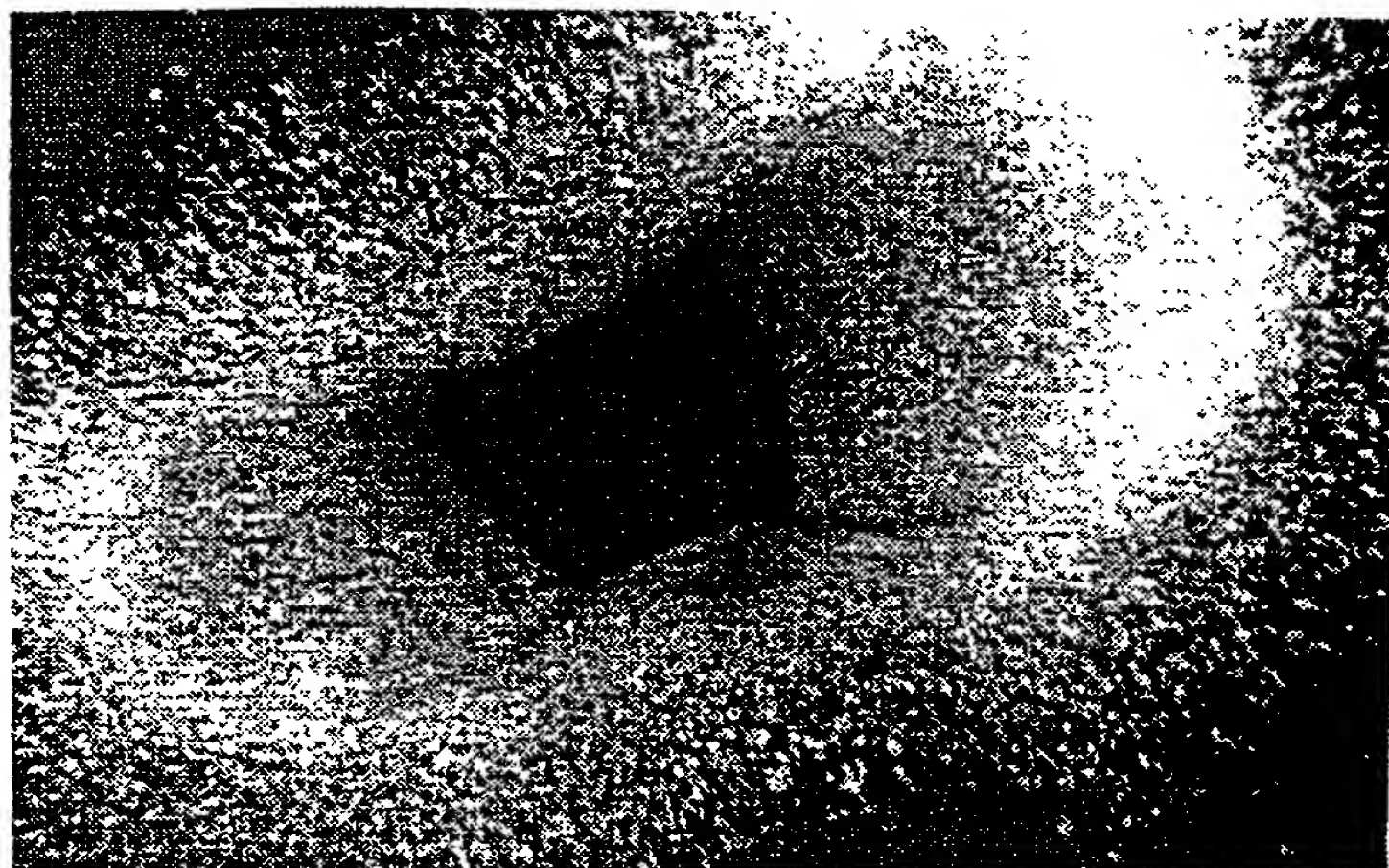


FIGURE 11

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**FIGURE 12**



Femur derived from a human foetus 7-9 weeks of gestation and of approximately 600 μm in length.

FIGURE 13

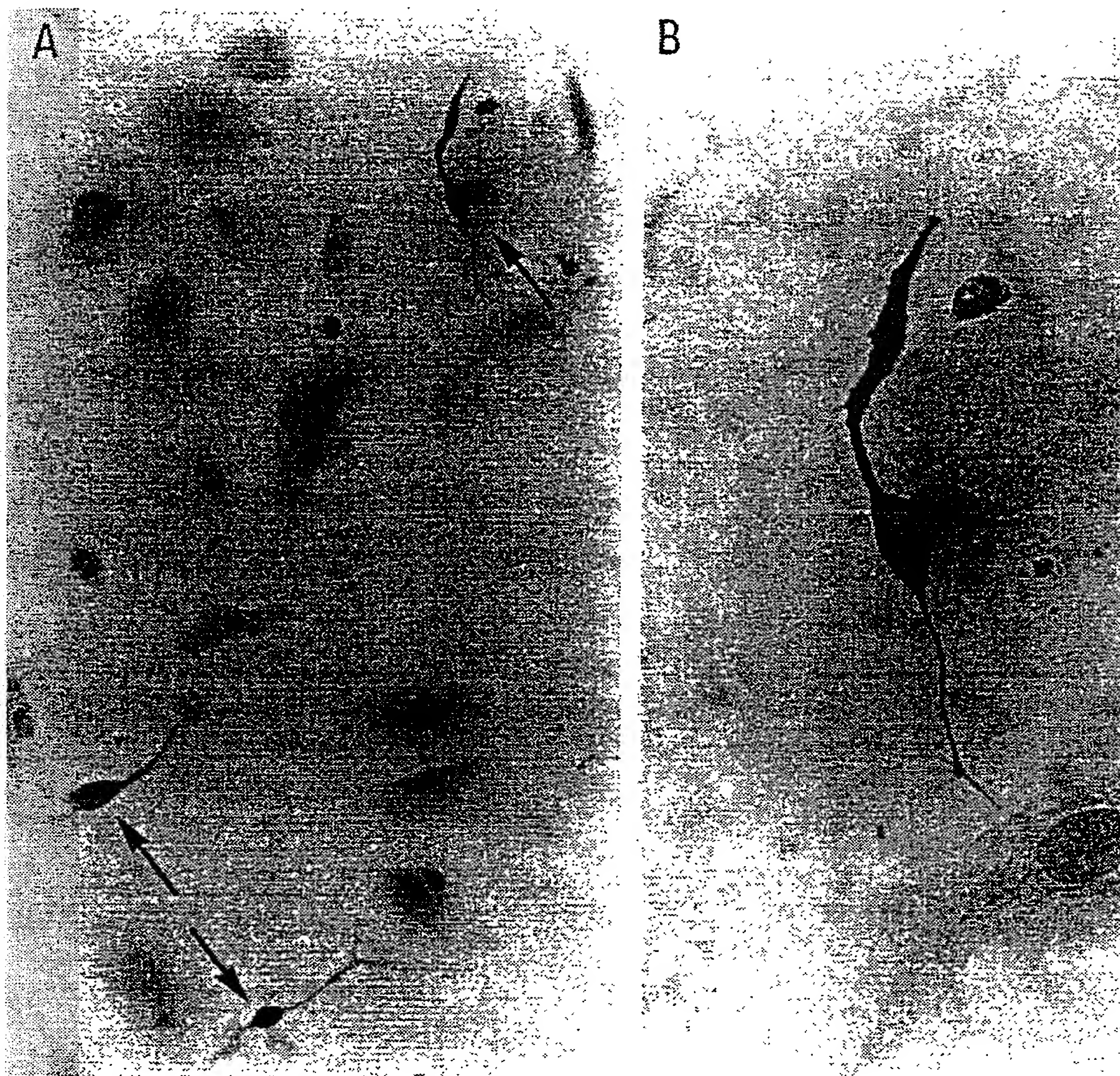


FIGURE 14



FIGURE 14